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**ACOUSTIC ASSESSMENT OF FLUIDS IN
A PLURALITY OF RESERVOIRS**

ABSTRACT OF THE DISCLOSURE

The invention provides devices and methods for acoustically assessing the
10 contents in a plurality of reservoirs. Each reservoir has a portion adapted to contain a
fluid, and an acoustic radiation generator is positioned in acoustic coupling relationship
to each of the reservoirs. Acoustic radiation generated by the acoustic radiation
generator is transmitted through at least the portion of each reservoir to an analyzer. The
analyzer is capable of analyzing a characteristic of the transmitted acoustic radiation and
15 optionally correlating the characteristic to a property of the reservoirs' contents. The
invention is particularly suited for assessing the contents of a plurality of reservoirs to
allow for accuracy and control over the dispensing of fluids therefrom.

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